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By: *Nancy Foster*

Nancy Foster

PATENT

Customer Number 22,852

Attorney Docket No. 4121.0116-01000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Holly H. HOGREFE et al.)
Serial No.: 08/957,709) Group Art Unit: 1652
Filed: October 24, 1997) Examiner: D. Ramirez
For: POLYMERASE ENHANCING)
FACTOR (PEF) EXTRACTS, PEF)
PROTEIN COMPLEXES, ISOLATED)
PEF PROTEIN, AND METHODS)
FOR PURIFYING AND)
IDENTIFYING THEM)

*#30
M93
3/24/03*

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ATTN: OFFICIAL DRAFTSPERSON
Commissioner for Patents
Washington, DC 20231
Sir:

SUBMISSION OF SUBSTITUTE DRAWINGS

Subject to the approval of the Examiner, please replace the originally filed drawings with the forty-four (44) sheets of substitute drawings filed herewith (Figures 1 through 44). If the corrected drawings for any reason are not in full compliance with the pertinent statutes and regulations, please so advise the undersigned.

If any fees are necessary for the submission of these corrected drawings, please charge our Deposit Account No. 06-0916.

Respectfully submitted,

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HENDERSON
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Dated: March 10, 2003

By: *Robert W. Mann*
Robert W. Mann
Reg. No. 48,555

APPRO.
BY
CRAF



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
PEF PROTEIN COMPLEXES, ISOLATED PEF PROTEIN, AND
METHODS FOR PURIFYING AND IDENTIFYING SAME
Inventors: Holly H. HOGREFE et al.
Application No.: 08/957,709
Filed: October 24, 1997
Attorney Docket No.: 04121.0116-01000
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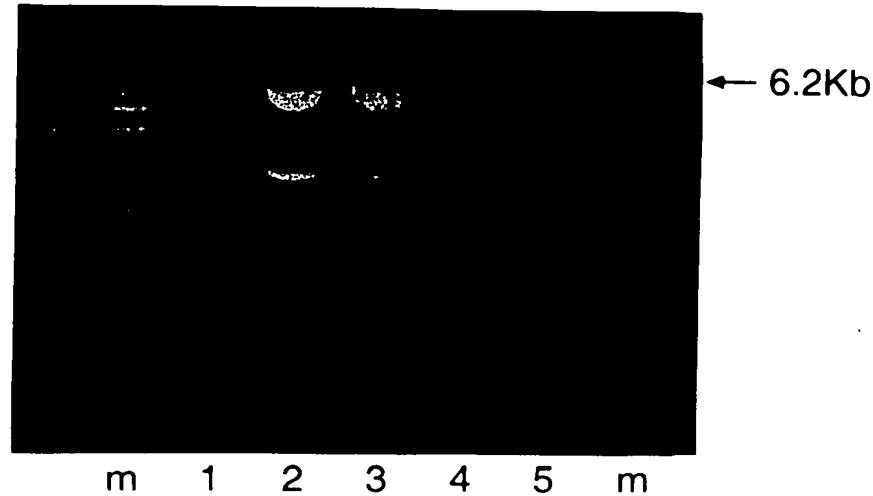


FIG. 1

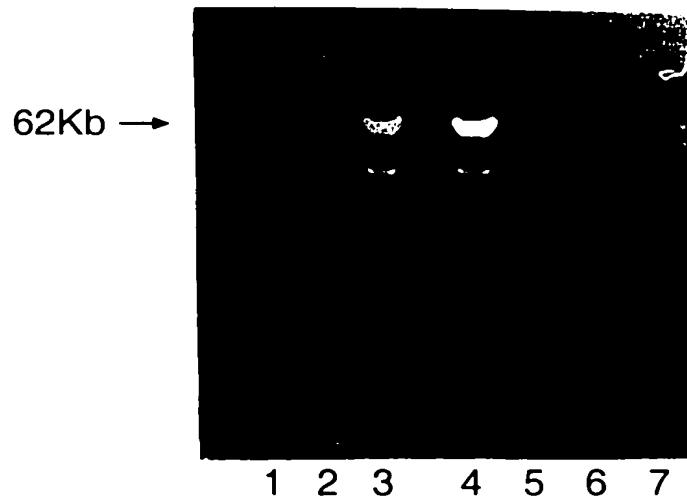
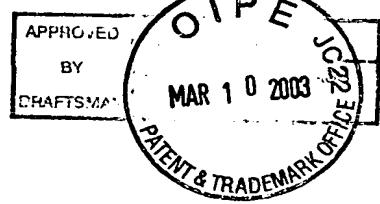


FIG. 2



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
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 Inventors: Holly H. HOGREFE et al.
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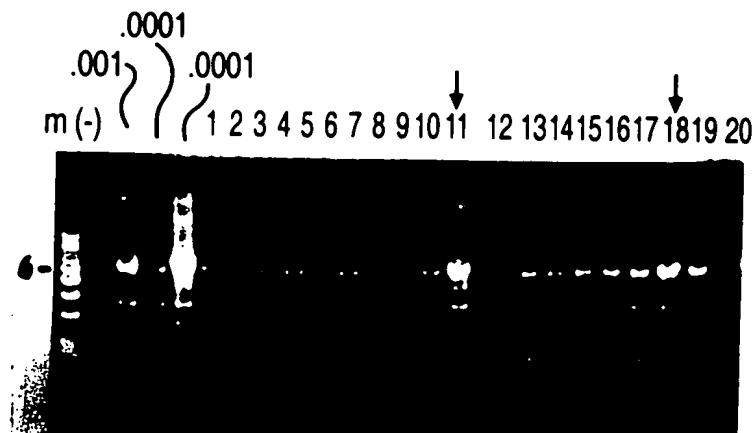


FIG. 3



FIG. 7

APPROVED
BY
DRAFTSMAN



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
PEF PROTEIN COMPLEXES, ISOLATED PEF PROTEIN, AND
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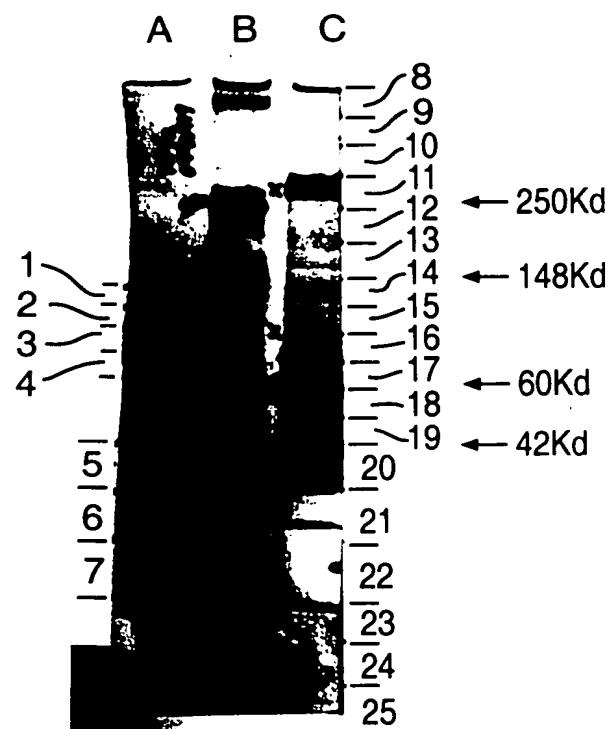


FIG. 4

APPROVED
BY
DRAFTSMAN

O.G. FIG.
CLASS 437 SUB-CLASS
JC2



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
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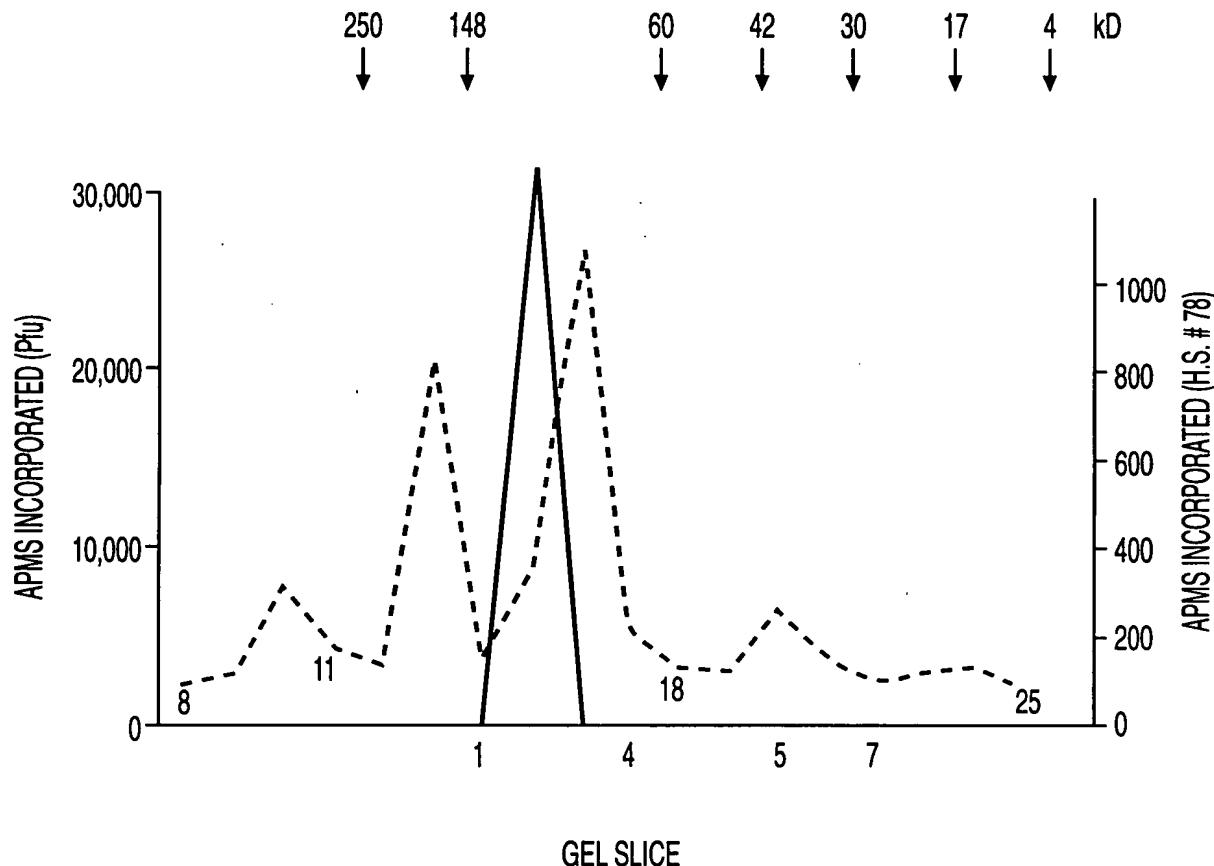


FIG. 5



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
PEF PROTEIN COMPLEXES, ISOLATED PEF PROTEIN, AND
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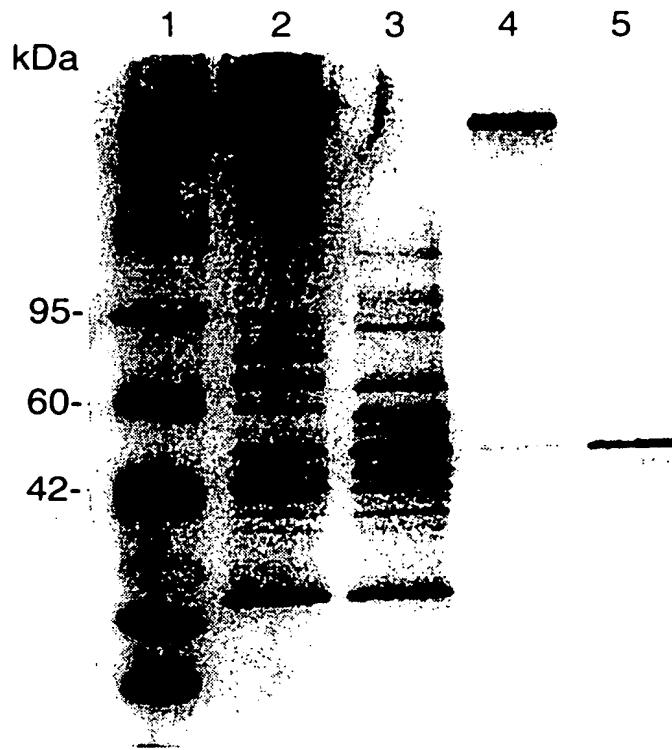
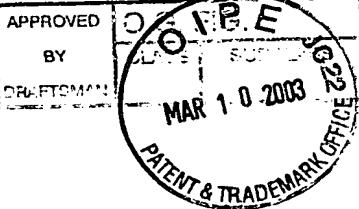


FIG. 6



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
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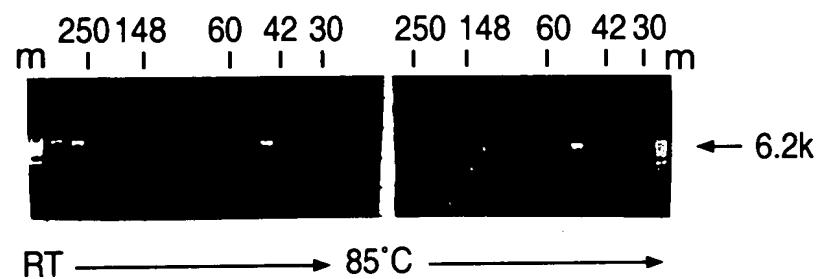


FIG. 8

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DRAFTSMAN



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
PEF PROTEIN COMPLEXES, ISOLATED PEF PROTEIN, AND
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Inventors: Holly H. HOGREFE et al.
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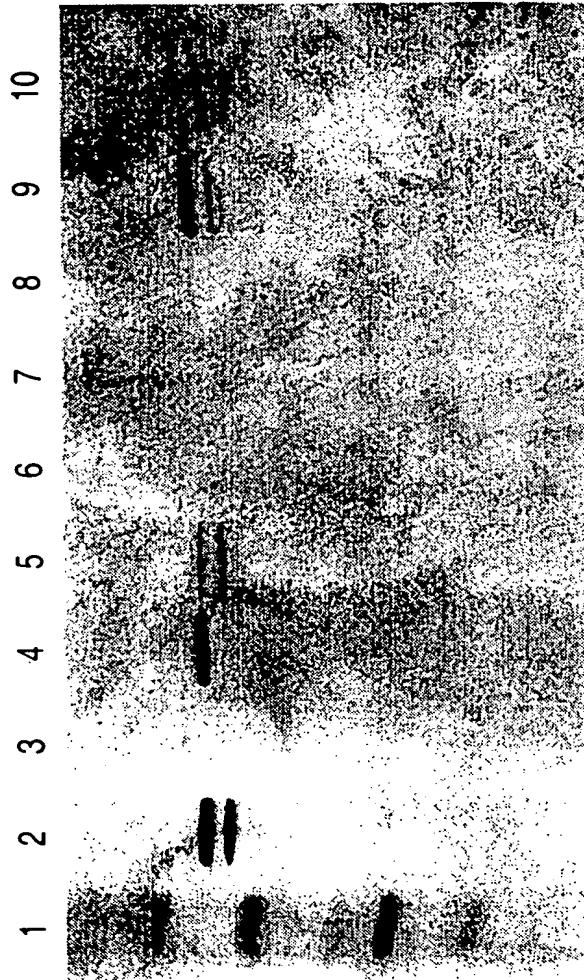


FIG. 9

APPROVED O.G.
BY CLNS ASS
DRAFTSMAN



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
PEF PROTEIN COMPLEXES, ISOLATED PEF PROTEIN, AND
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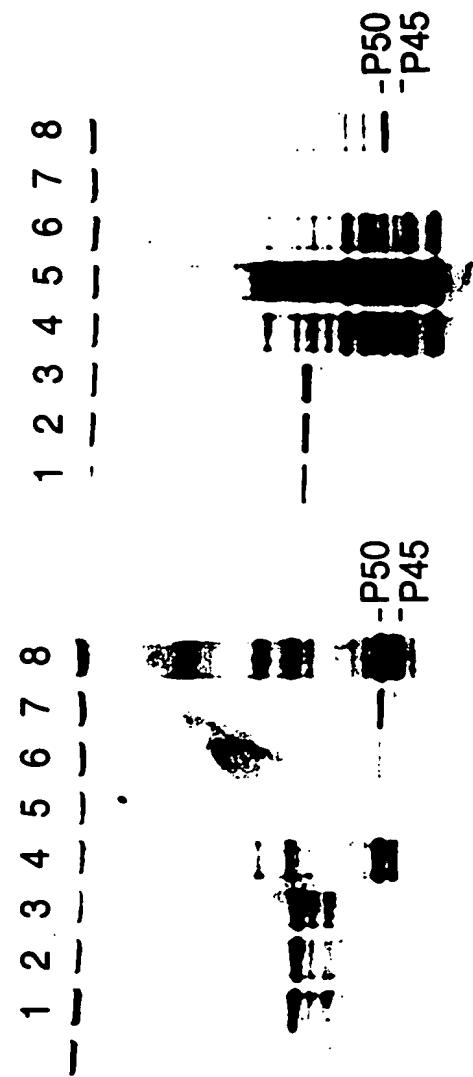
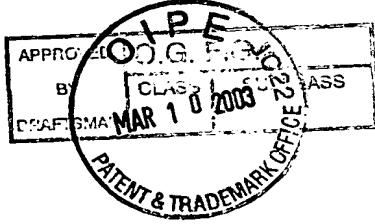


FIG. 10



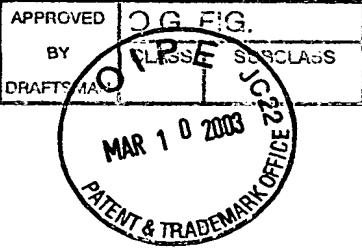
Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
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FIG. 11A



FIG. 11B



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
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Inventors: Holly H. HOGREFE et al.
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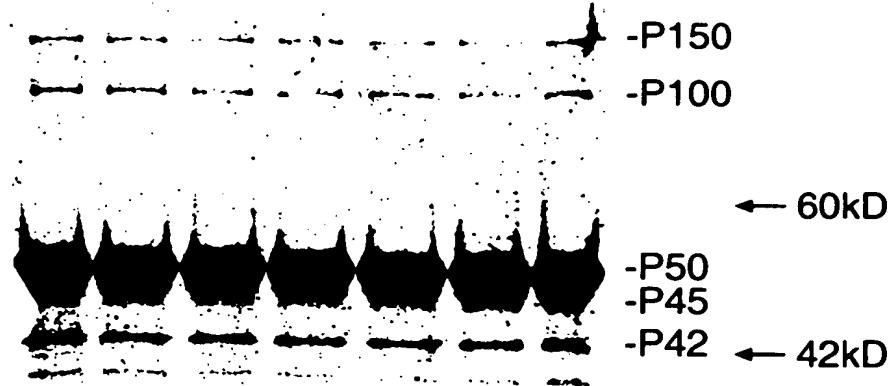
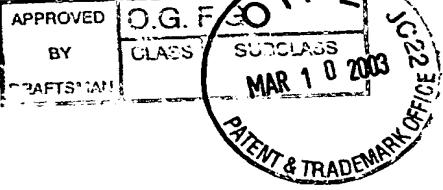


FIG. 12



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
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Inventors: Holly H. HOGREFE et al.
Application No.: 08/957,709
Filed: October 24, 1997
Attorney Docket No.: 04121.0116-01000
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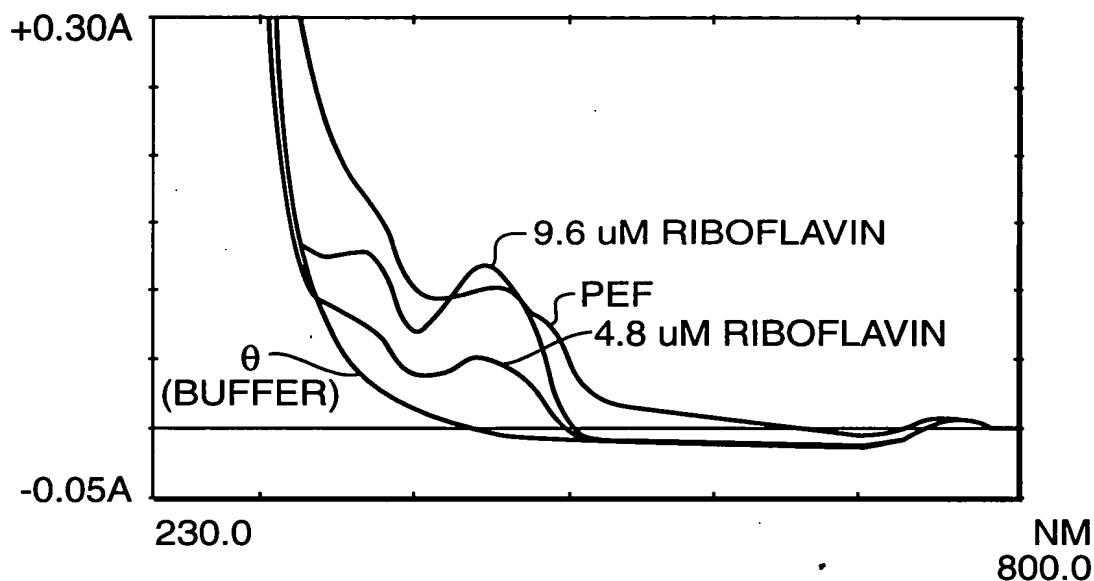
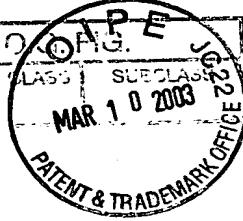


FIG. 13

APPROVED
BY
DRAFTSMAN



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
PEF PROTEIN COMPLEXES, ISOLATED PEF PROTEIN, AND
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Application No.: 08/957,709
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CLONE 23

CLONE 1

| PEF LOT 52 | | PEF LOT 49 | | | | | |
|------------|---|------------|-----|-----|-----|---------------------|------------------------|
| | | 0.2 | 7 | 0.7 | 0.2 | 1 μ l (1/10) | 1 μ l 5 μ l |
| NONE | 7 | 0.7 | 0.2 | | | | |

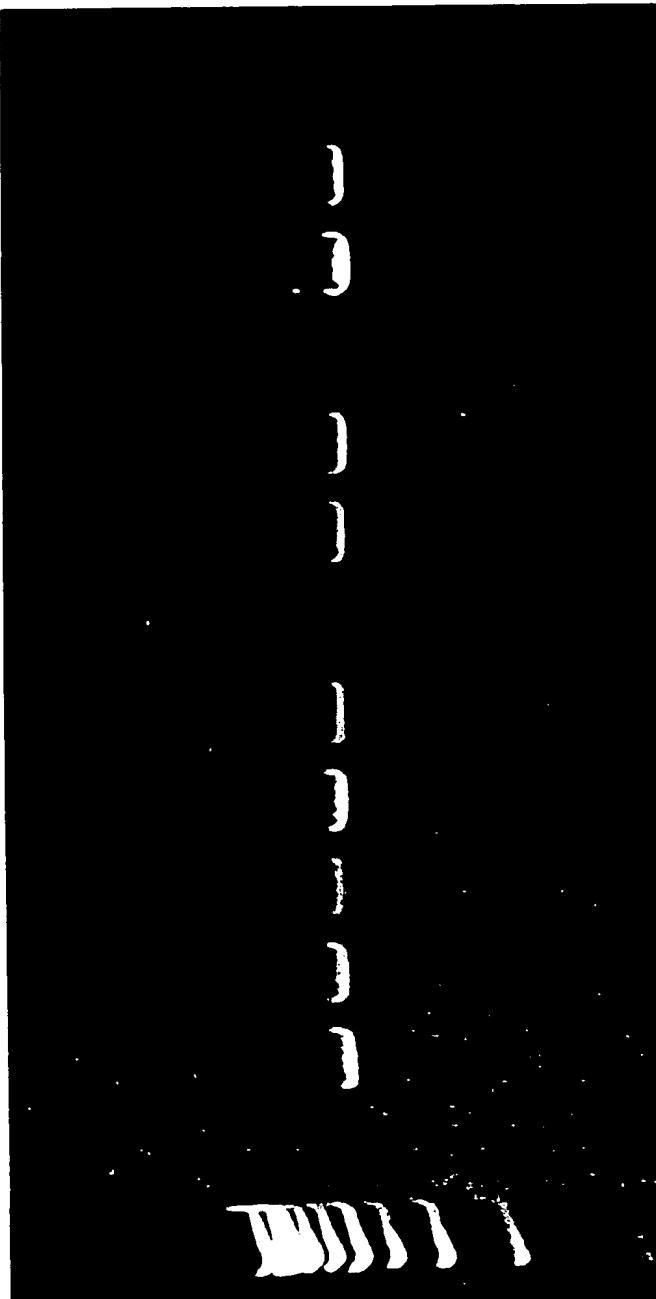
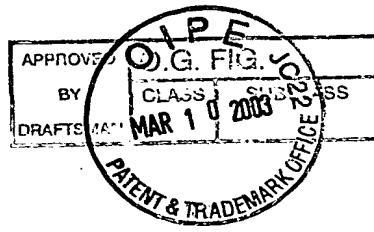


FIG. 14



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
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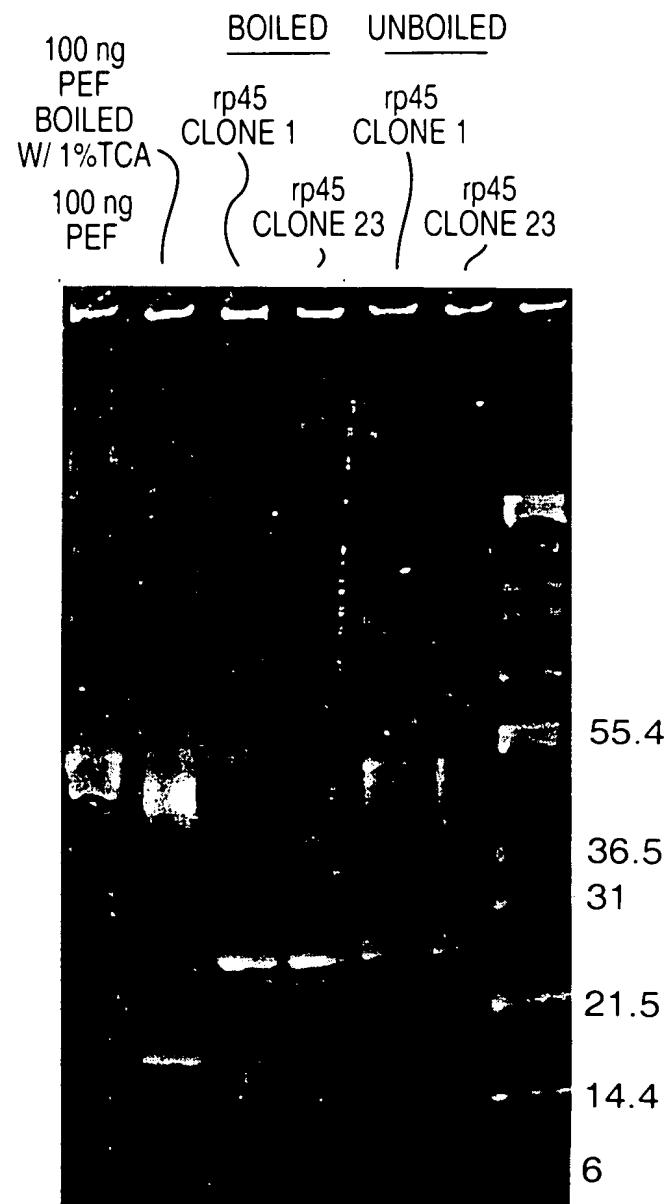


FIG. 15

APPROVED
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CRAFTSMAN
O.C.G. FIG.
CLASS 1 SUBCLASS
O P F F
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SC 22
PATENT & TRADEMARK OFFICE

Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
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Inventors: Holly H. HOGREFE et al.
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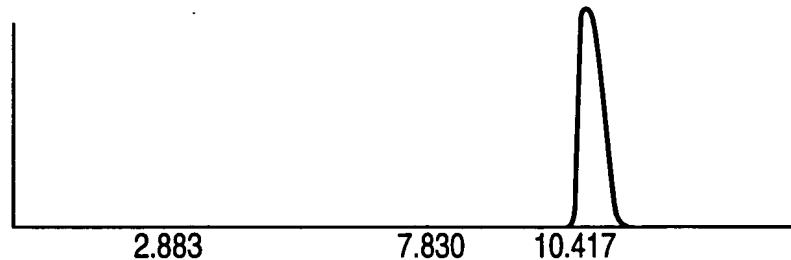


FIG. 16A

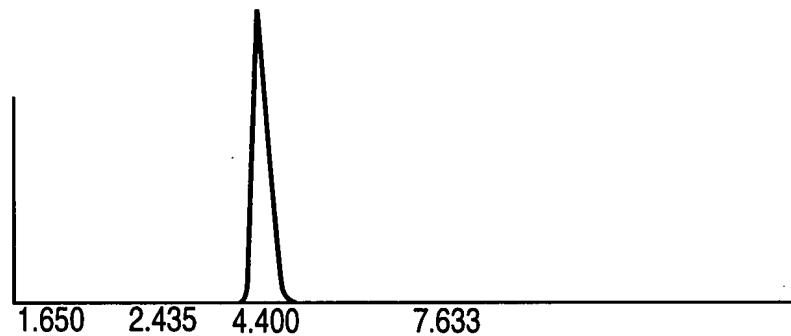


FIG. 16B

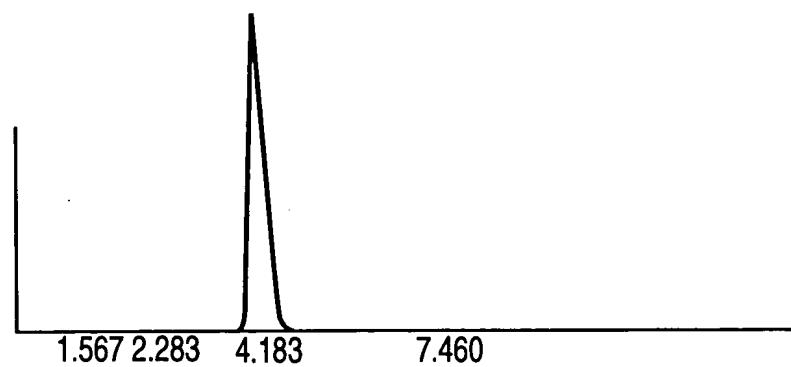


FIG. 16C

| | | |
|-----------|-----------|----------|
| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
PEF PROTEIN COMPLEXES, ISOLATED PEF PROTEIN, AND
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Inventors: Holly H. HOGREFE et al.
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Attorney Docket No.: 04121.0116-01000
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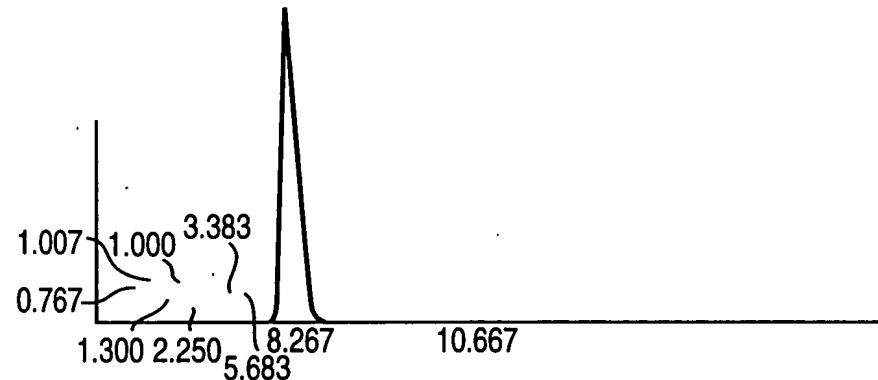


FIG. 16D

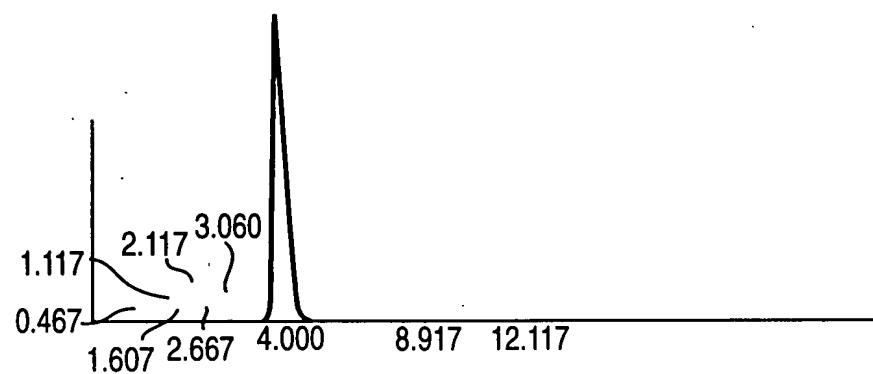
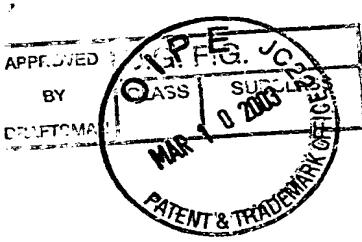


FIG. 16E



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
PEF PROTEIN COMPLEXES, ISOLATED PEF PROTEIN, AND
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Inventors: Holly H. HOGREFE et al.
Application No.: 08/957,709
Filed: October 24, 1997
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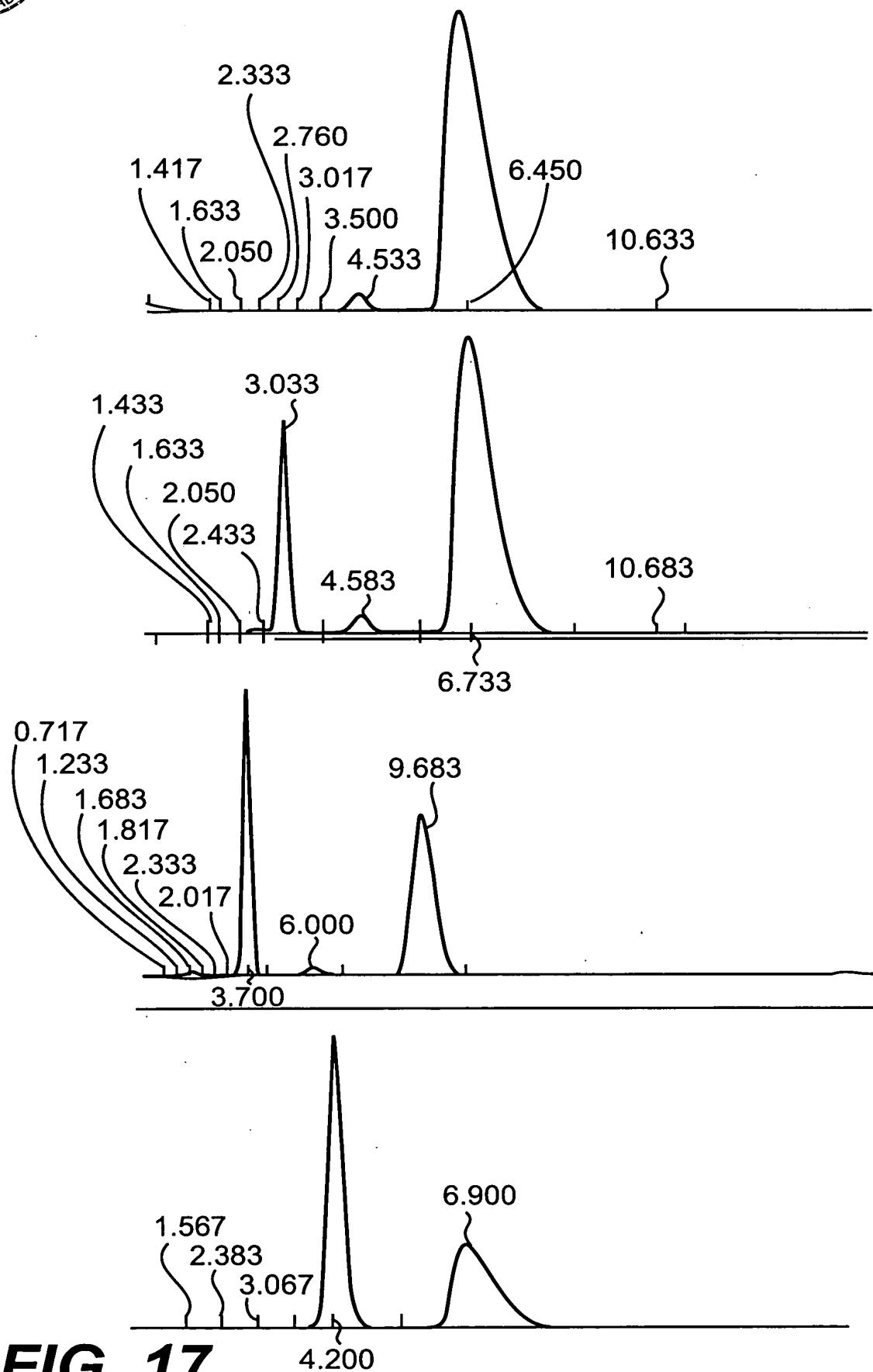
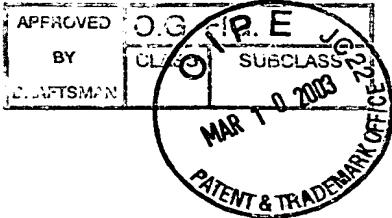


FIG. 17



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
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Inventors: Holly H. HOGREFE et al.
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Attorney Docket No.: 04121.0116-01000
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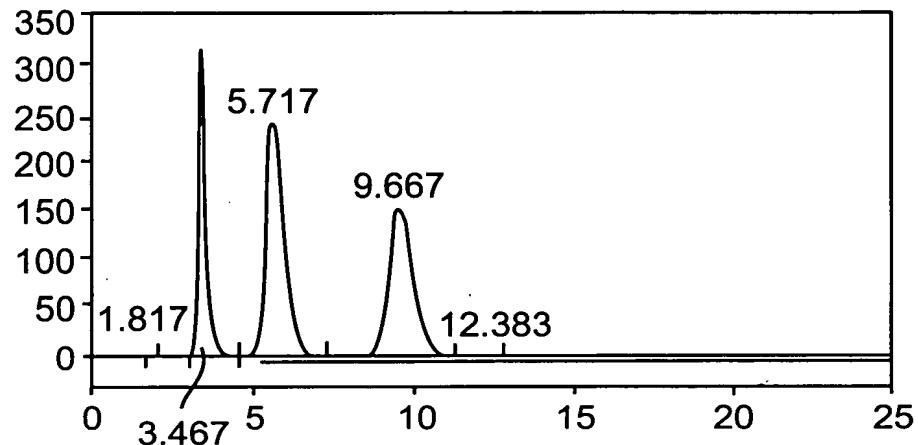


FIG. 18C

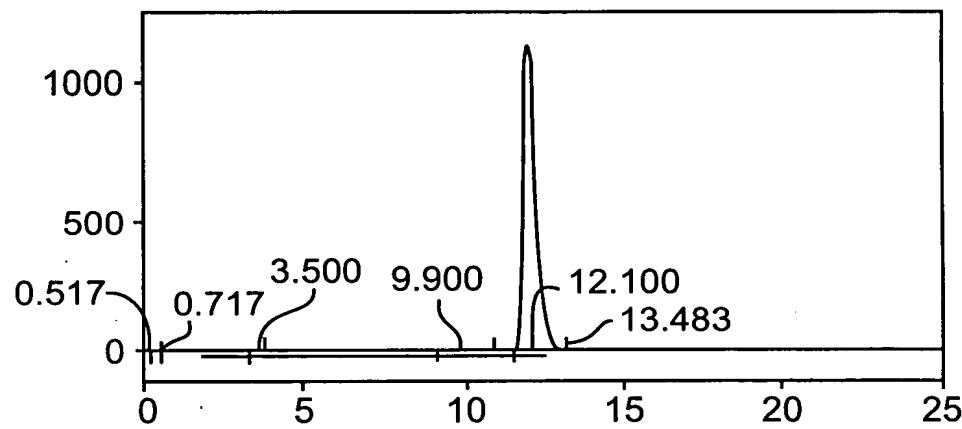


FIG. 18D

APPROVED O.G. FIG.
BY CLASS SUBCLASS
CONFIDENTIAL PEF

Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
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Inventors: Holly H. HOGREFE et al.
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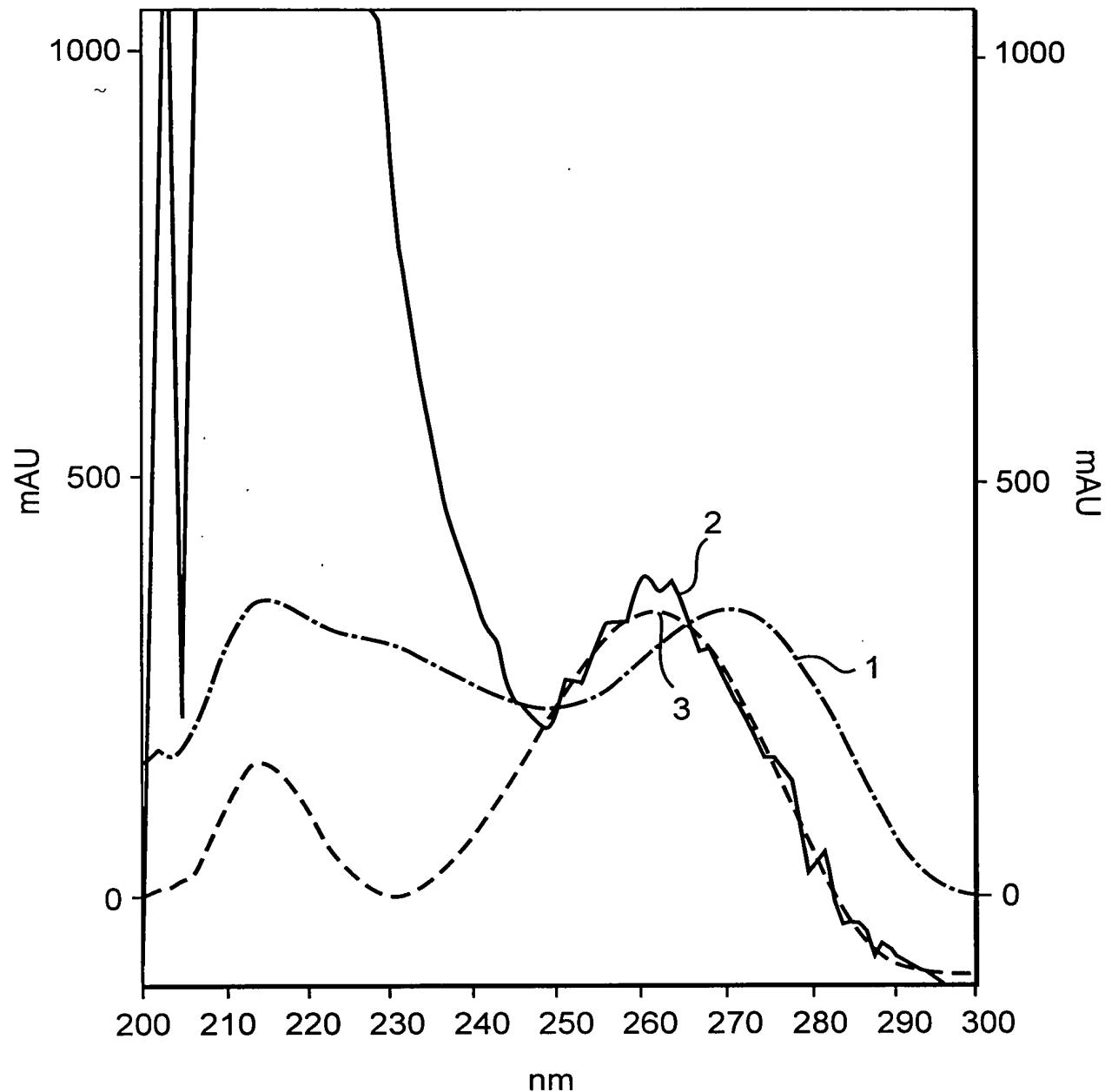
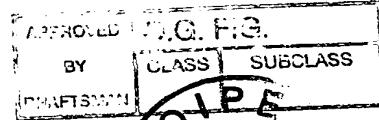


FIG. 19



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
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Inventors: Holly H. HOGREFE et al.
Application No.: 08/957,709
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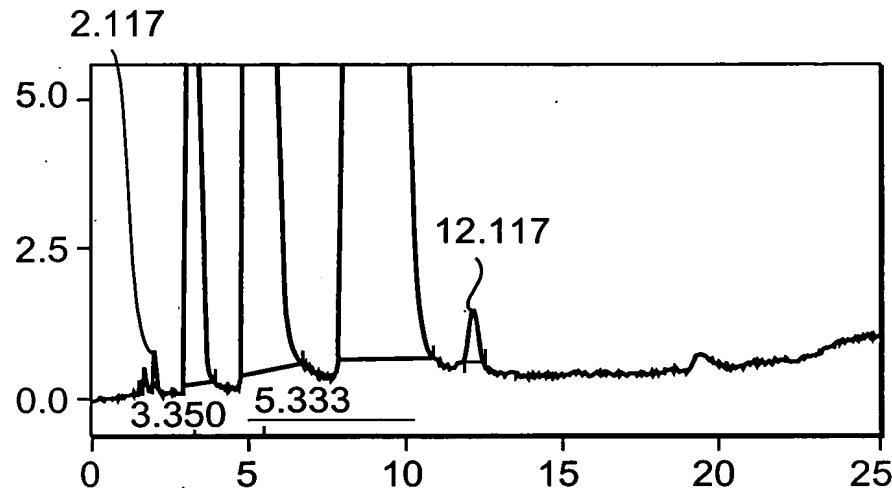


FIG. 20A

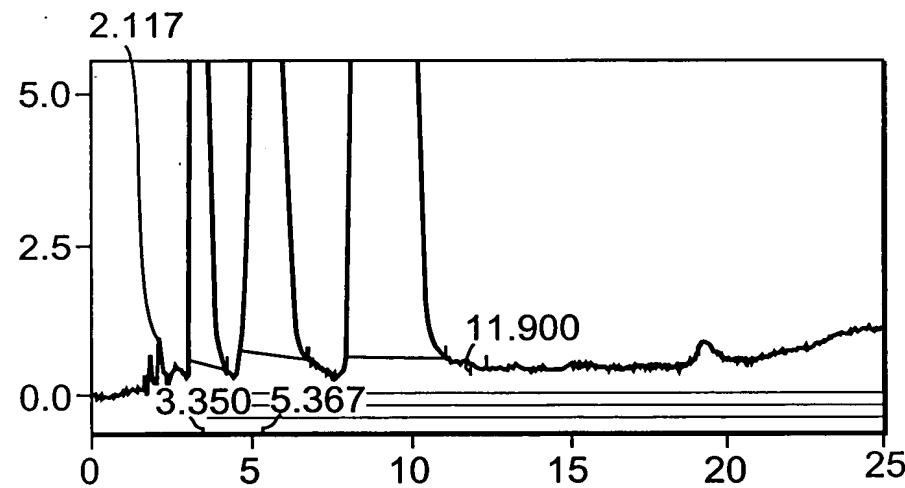


FIG. 20B

APPLIED FOR
BY
P. STONE

Q. FIG.

CLASS

SUBCLASS

Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
PEF PROTEIN COMPLEXES, ISOLATED PEF PROTEIN, AND
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Inventors: Holly H. HOGREFE et al.
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Attorney Docket No.: 04121.0116-01000
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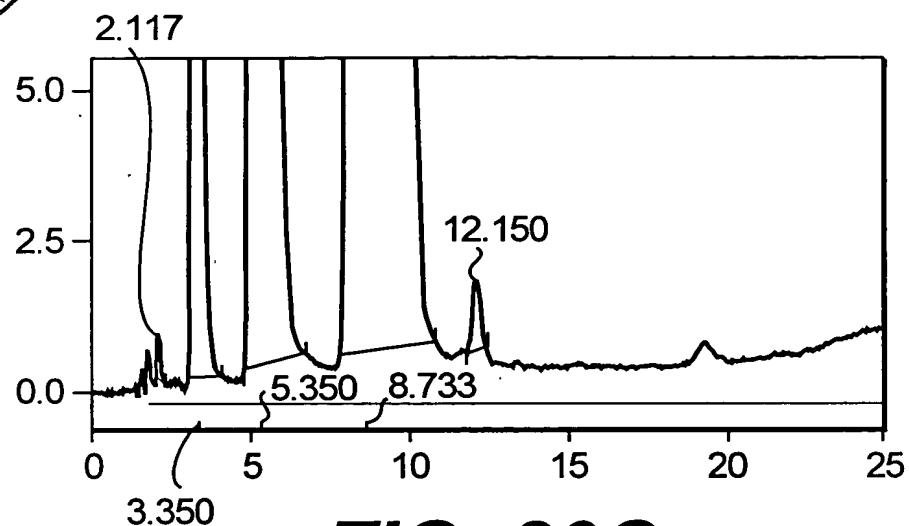


FIG. 20C

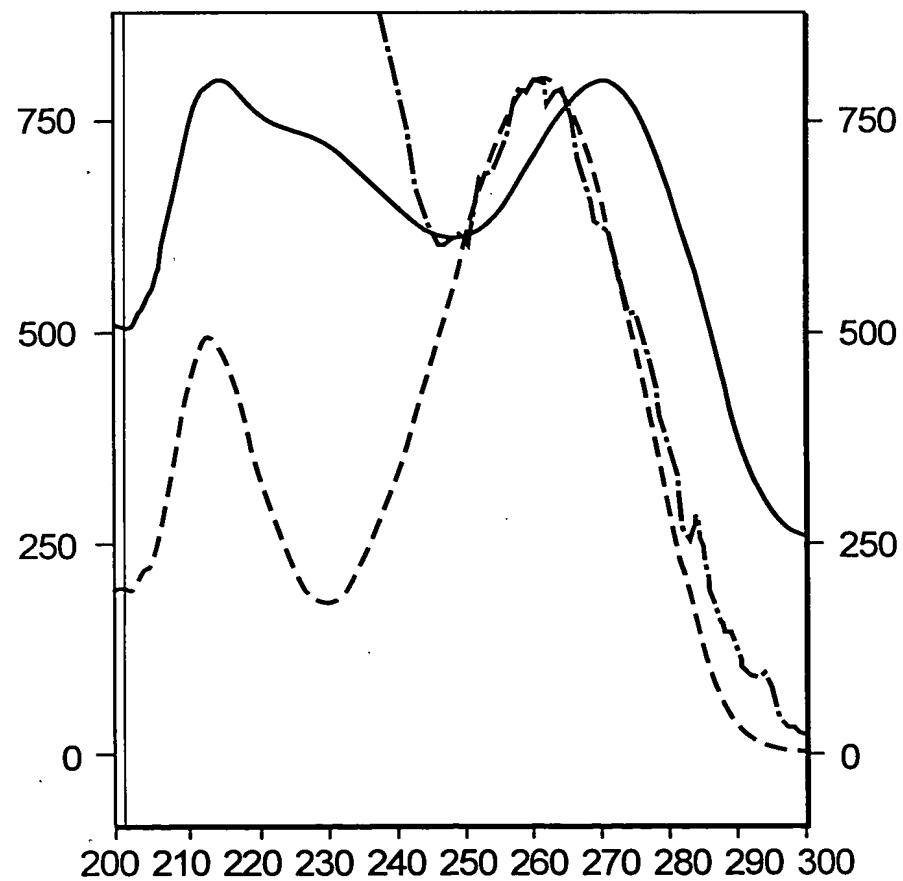
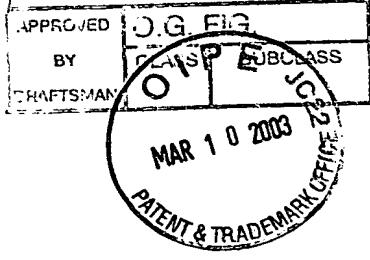


FIG. 20D



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
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Application No.: 08/957,709
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1 2 3 4 5 6 7 8 9 10 11 12 13

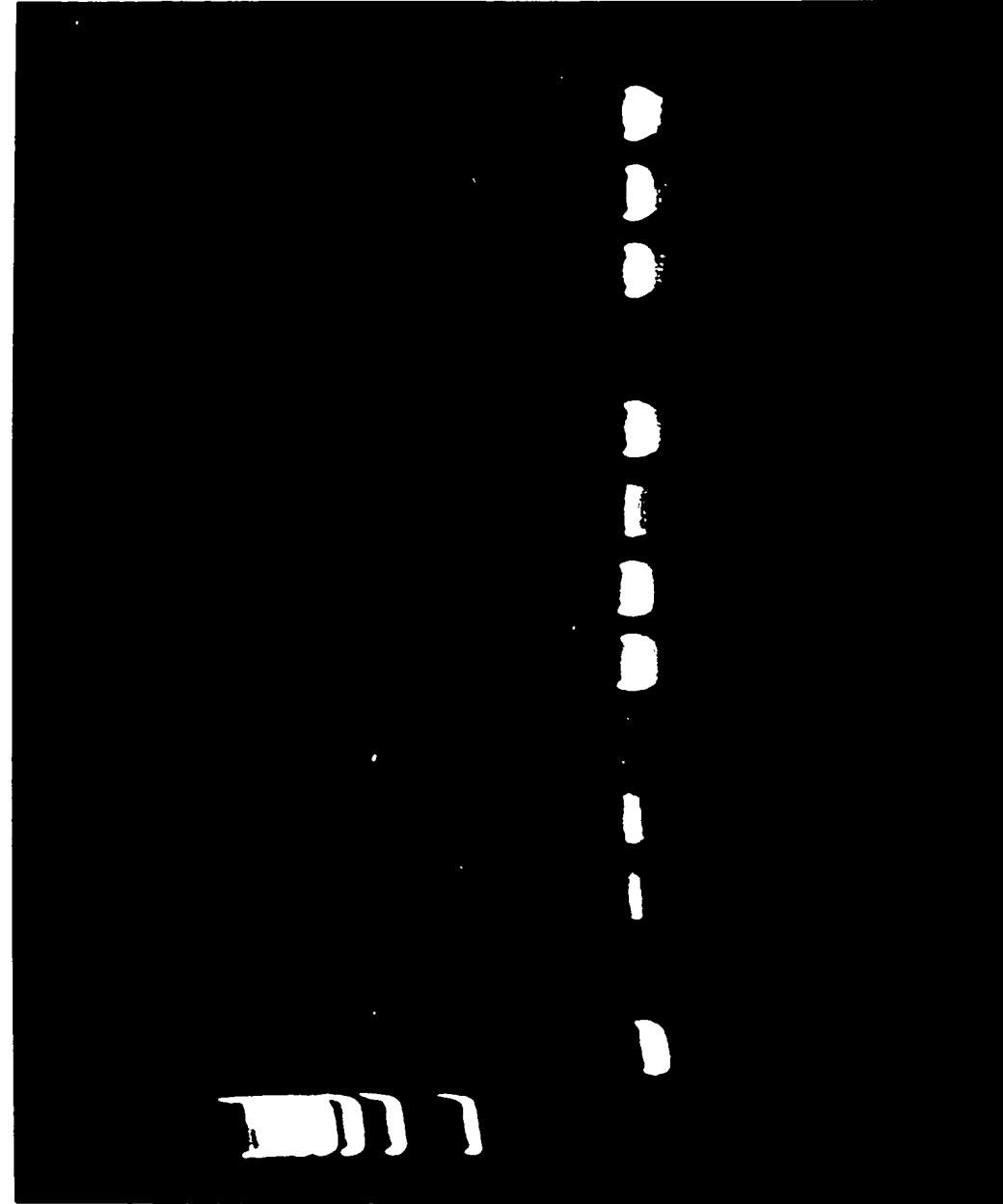


FIG. 21

| | | |
|-----------|-----------|----------|
| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
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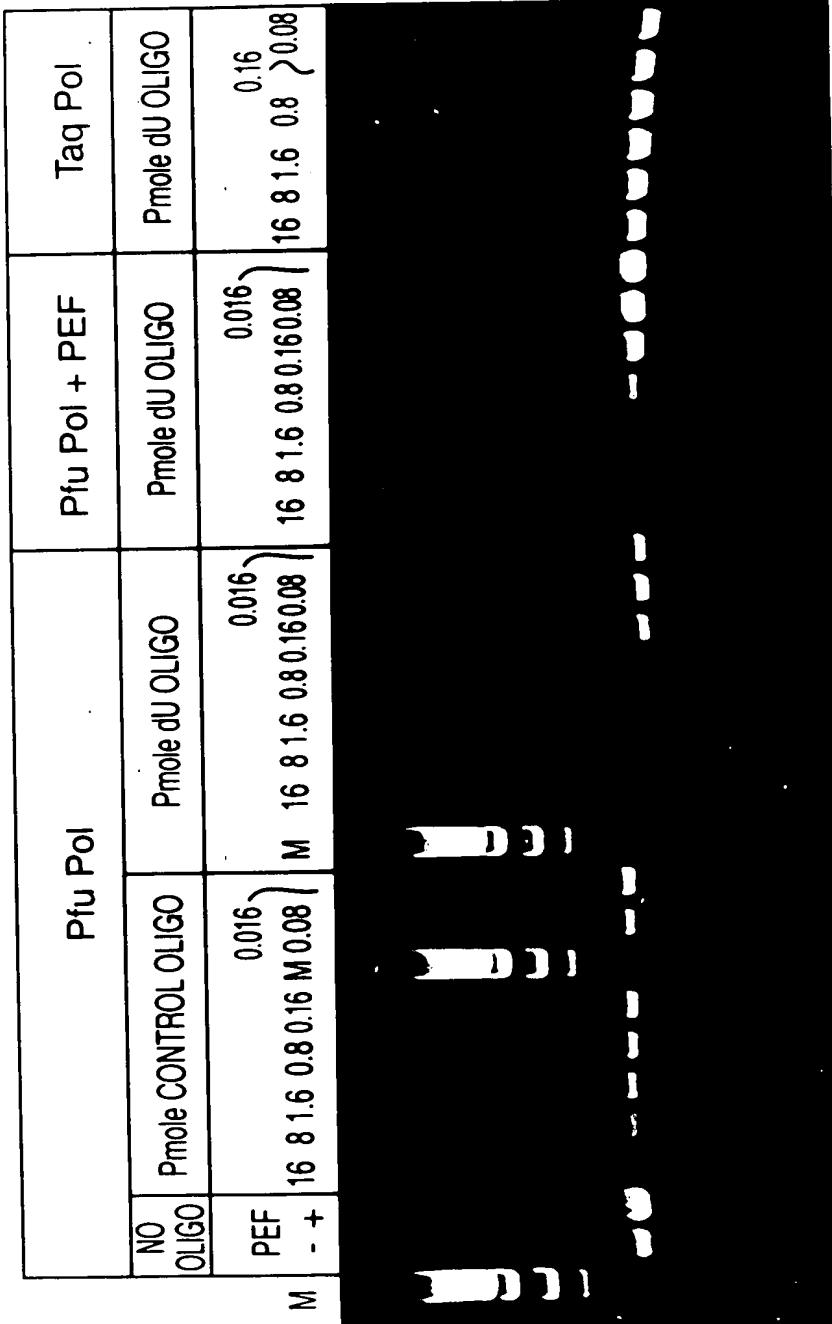


FIG. 22

| | | |
|-----------|-----------|----------|
| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | JC22 | |

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MAR 10 2003
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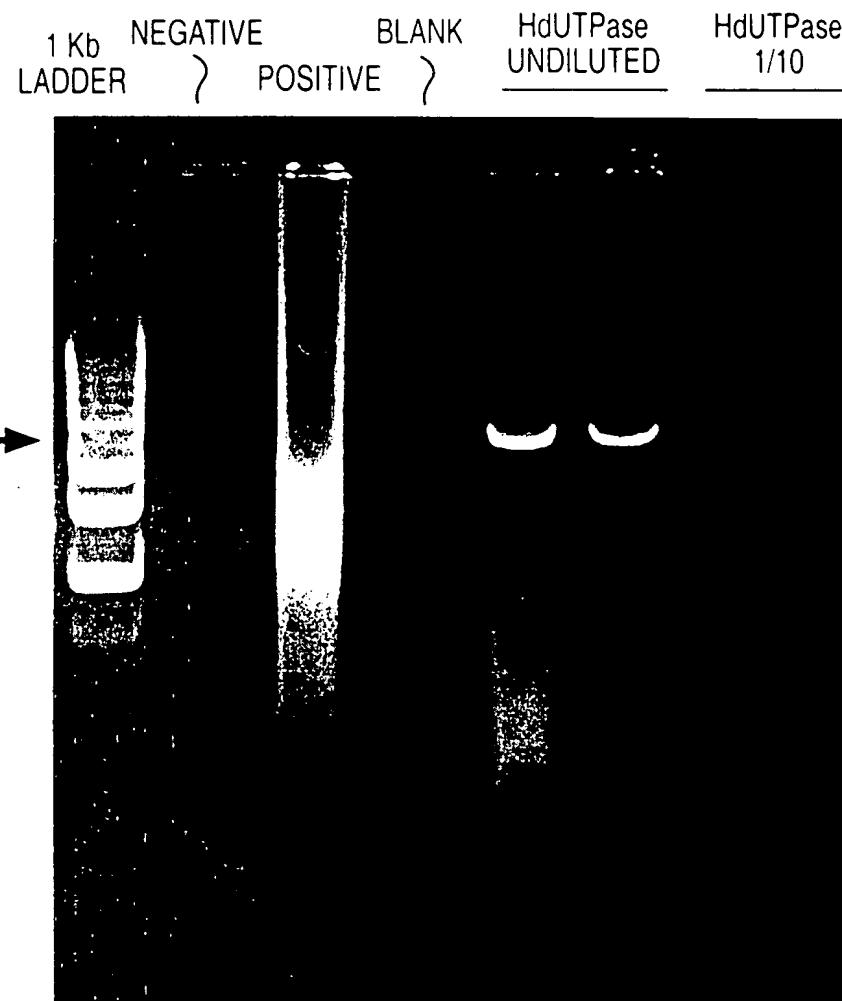
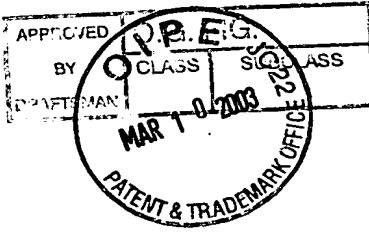


FIG. 23



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
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Inventors: Holly H. HOGREFE et al.
Application No.: 08/957,709
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Attorney Docket No.: 04121.0116-01000
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FIG. 24

| | | |
|----------|------------|----------|
| APPROVED | O. G. FIG. | |
| BY | CLASS | SUBCLASS |

Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
PEF PROTEIN COMPLEXES, ISOLATED PEF PROTEIN, AND
METHODS FOR PURIFYING AND IDENTIFYING S
Inventors: Holly H. HOGREFE et al.
Application No.: 08/957,709
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Attorney Docket No.: 04121.0116-01000
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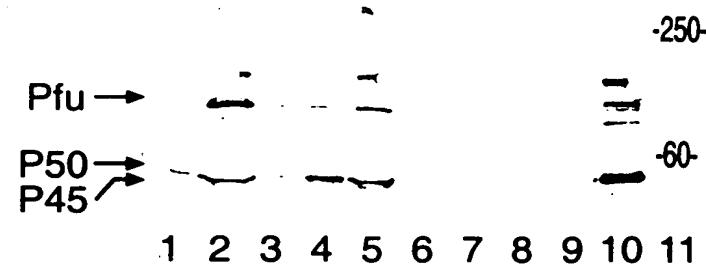
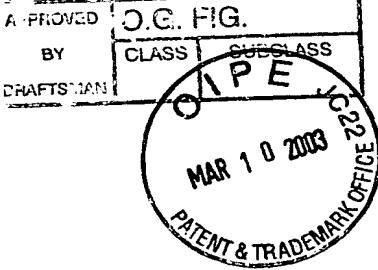


FIG. 25



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
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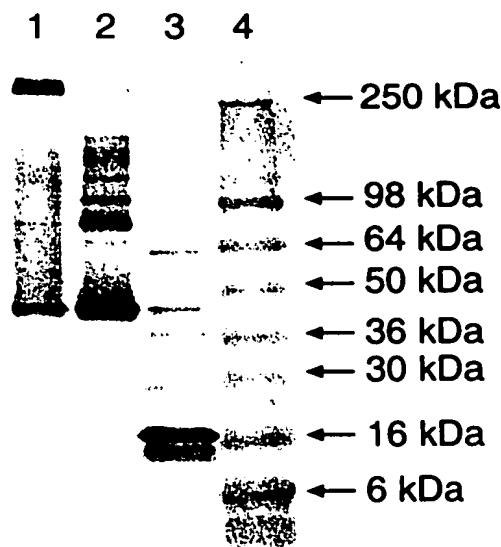
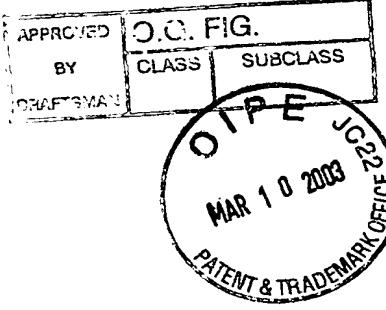


FIG. 26



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
PEF PROTEIN COMPLEXES, ISOLATED PEF PROTEIN, AND
METHODS FOR PURIFYING AND IDENTIFYING SAME
Inventors: Holly H. HOGREFE et al.
Application No.: 08/957,709
Filed: October 24, 1997
Attorney Docket No.: 04121.0116-01000
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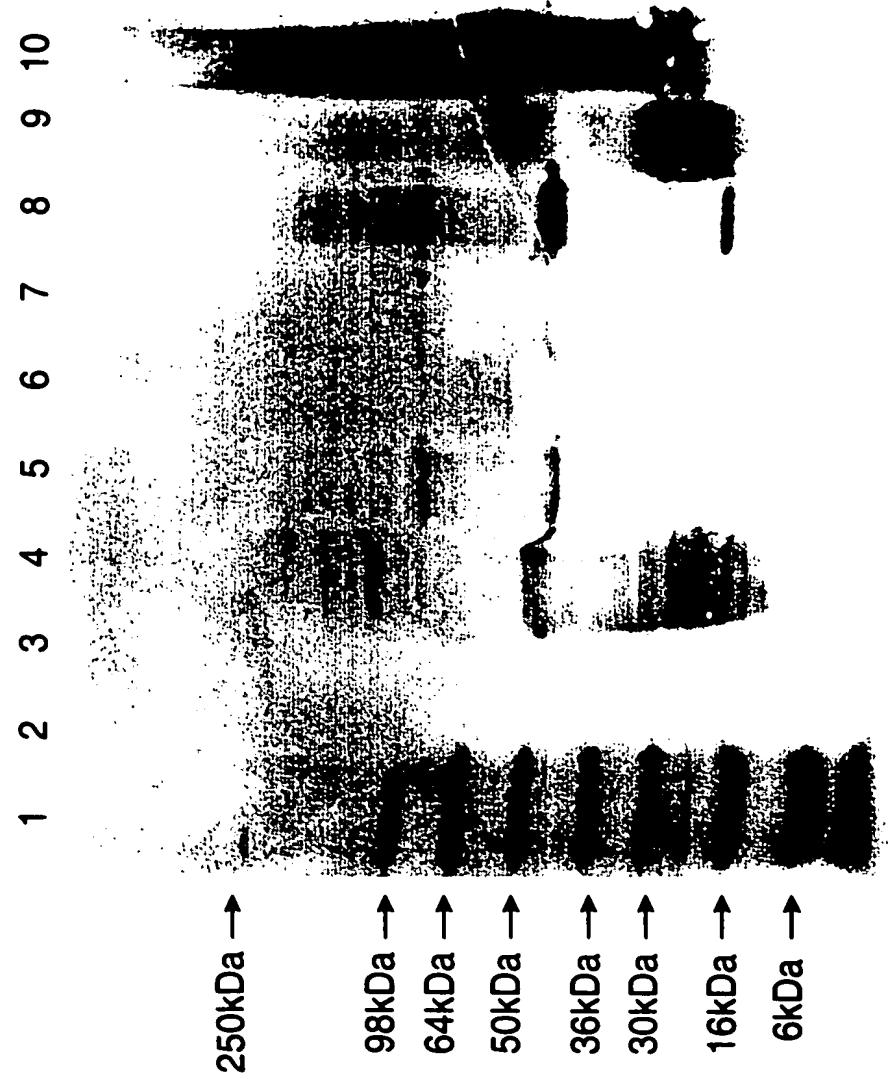
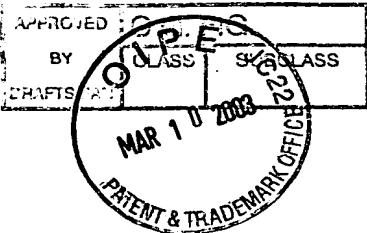


FIG. 27



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
PEF PROTEIN COMPLEXES, ISOLATED PEF PROTEIN, AND
METHODS FOR PURIFYING AND IDENTIFYING SAME
Inventors: Holly H. HOGREFE et al.
Application No.: 08/957,709
Filed: October 24, 1997
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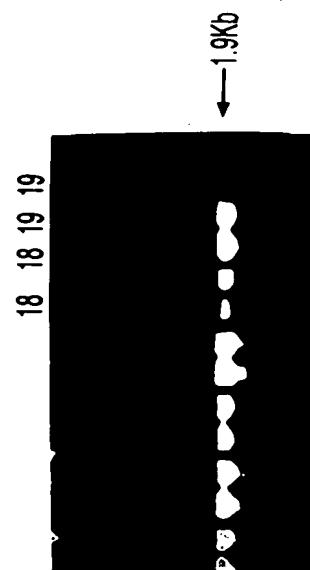


FIG. 28

| | | |
|------------|-----------|----------|
| APPLIED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| C. AFT. AN | PEF | JC22 |

Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
PEF PROTEIN COMPLEXES, ISOLATED PEF PROTEIN, AND
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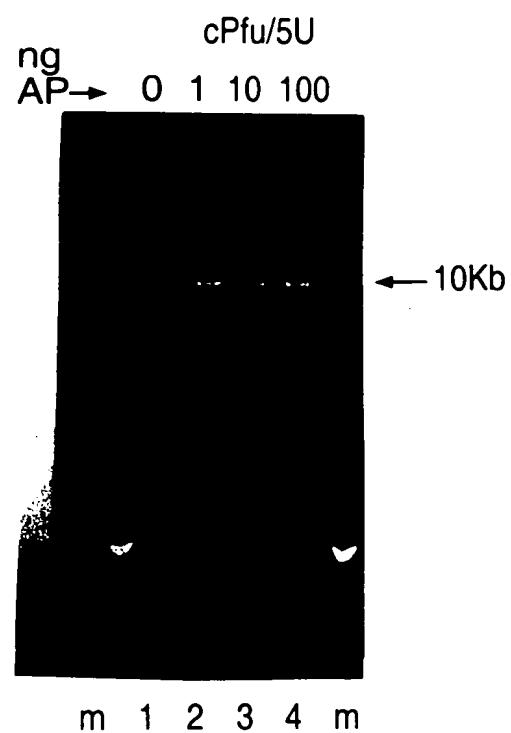


FIG. 29

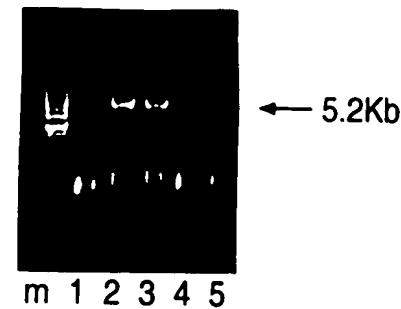


FIG. 30

BY CLASS SUBCLASS
PFTS
O T P E JC 22
MAR 10 2003
PATENT & TRADEMARK OFFICE

Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
PEF PROTEIN COMPLEXES, ISOLATED PEF PROTEIN, AND
METHODS FOR PURIFYING AND IDENTIFYING SAME
Inventors: Holly H. HOGREFE et al.
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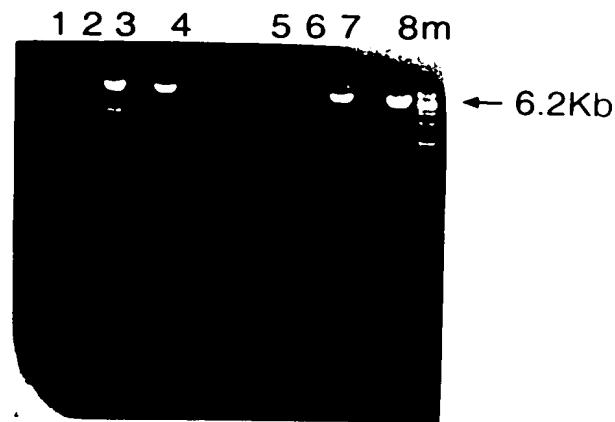


FIG. 31

| | | | |
|------------|--|-----------|----------|
| APPLIED BY | | O.C. F.G. | |
| BY | | CLASS | SUBCLASS |
| DRAFTSMAN | | | |



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
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 Inventors: Holly H. HOGREFE et al.
 Application No.: 08/957,709
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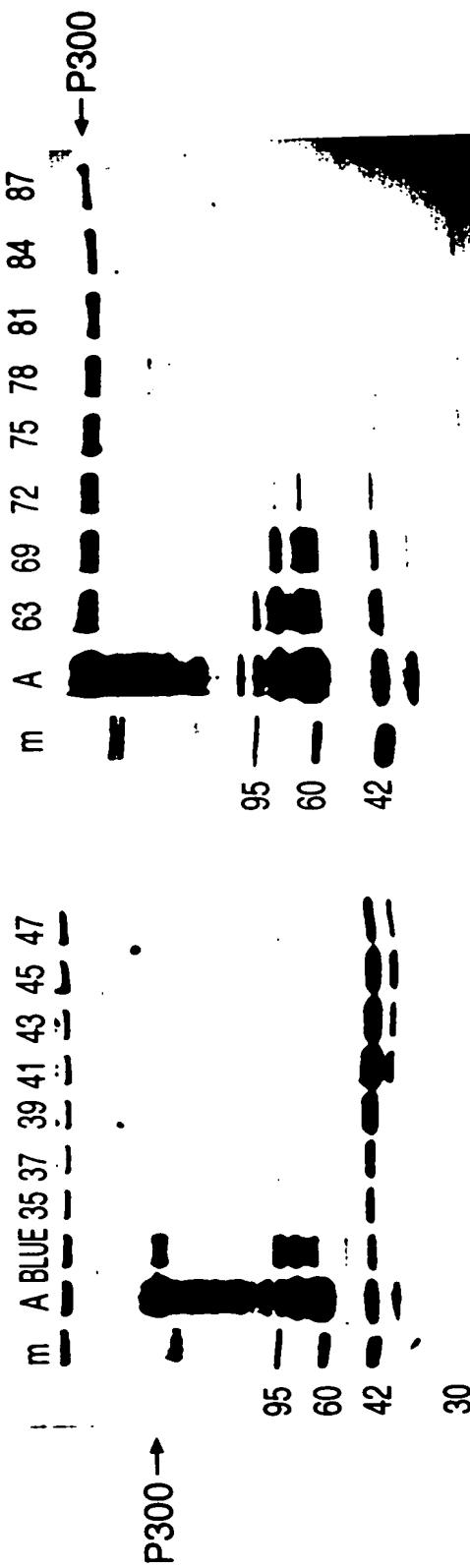


FIG. 32A

FIG. 32B

| | | |
|----------|-----------|----------|
| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMA | | |



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
PEF PROTEIN COMPLEXES, ISOLATED PEF PROTEIN, AND
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Inventors: Holly H. HOGREFE et al.
Application No.: 08/957,709
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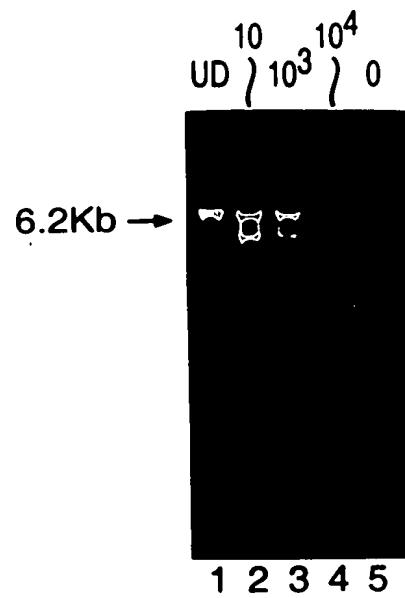


FIG. 33

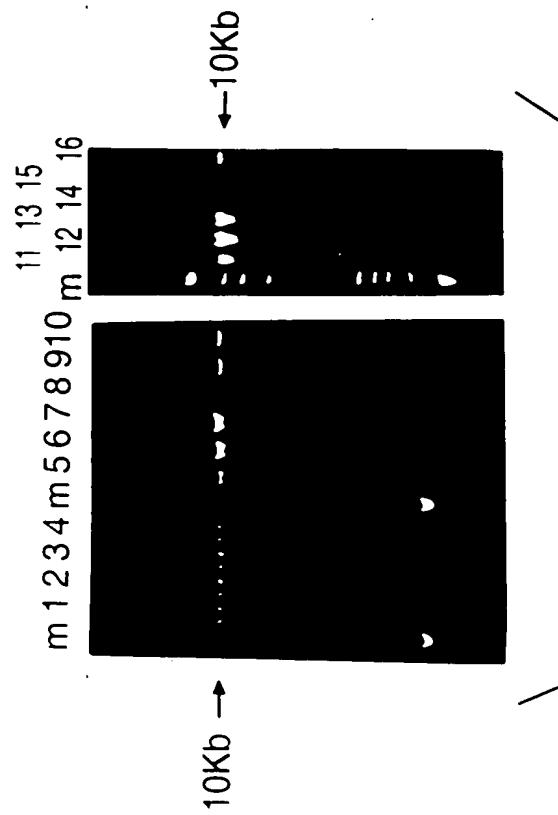


FIG. 34



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
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Inventors: Holly H. HOGREFE et al.
Application No.: 08/957,709
Filed: October 24, 1997
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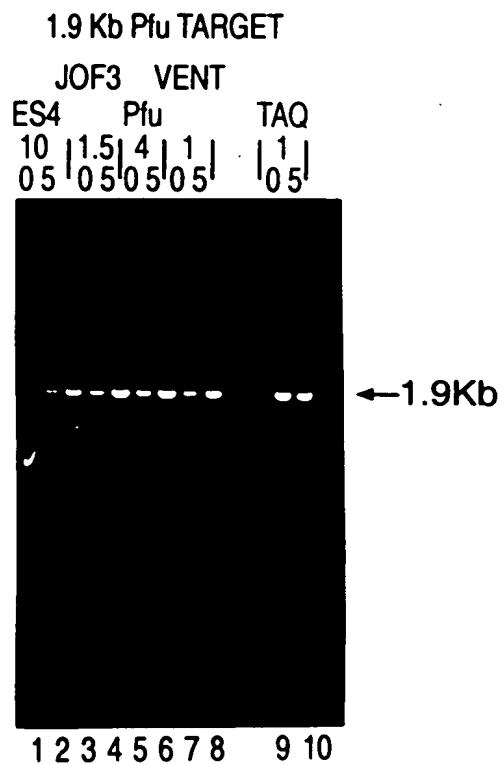
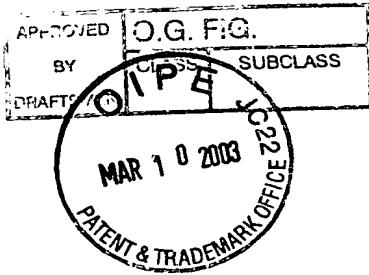


FIG. 35



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
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Inventors: Holly H. HOGREFE et al.
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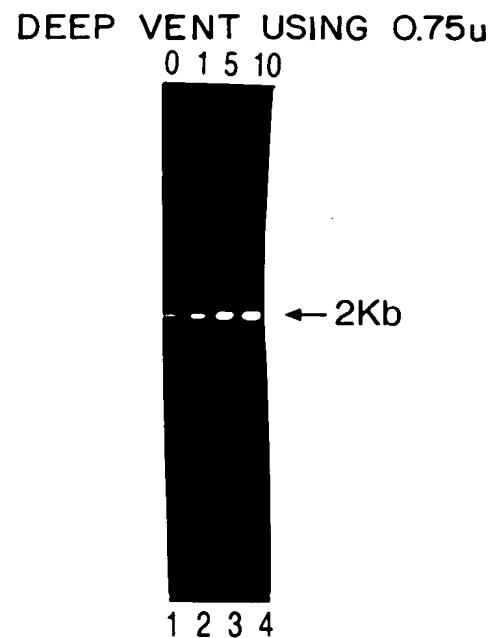
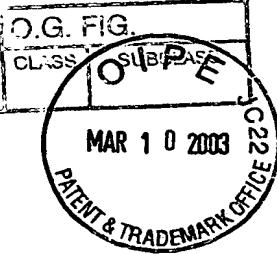


FIG. 36

APPROVED
BY
SCOUTSMAN



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
PEF PROTEIN COMPLEXES, ISOLATED PEF PROTEIN, AND
METHODS FOR PURIFYING AND IDENTIFYING SAME
Inventors: Holly H. HOGREFE et al.
Application No.: 08/957,709
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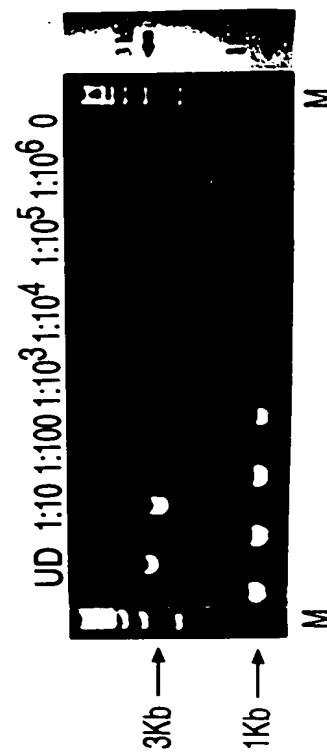


FIG. 37

SEARCHED
INDEXED
SERIALIZED
FILED
J.G. FIG.
BY CLASS SUBCLASS

Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
PEF PROTEIN COMPLEXES, ISOLATED PEF PROTEIN, AND
METHODS FOR PURIFYING AND IDENTIFYING SAME
Inventors: Holly H. HOGREFE et al.
Application No.: 08/957,709
Filed: October 24, 1997
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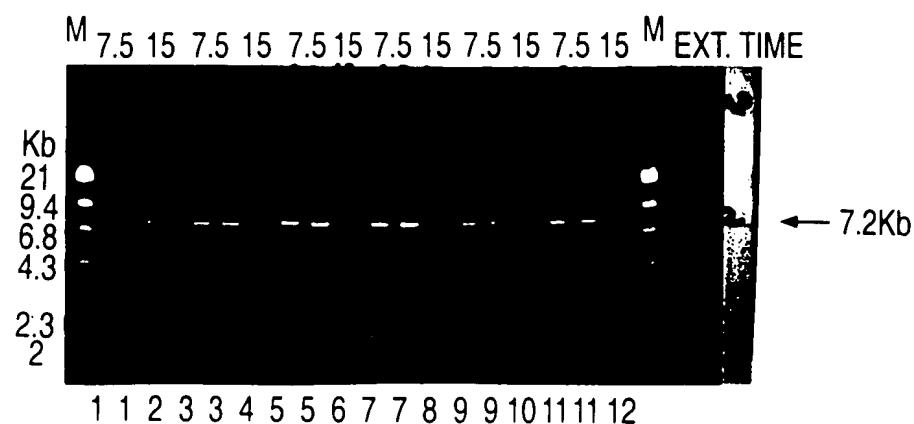


FIG. 38



Pfu "PCR ENHANCER" IN QUICKCHANGE MUTAGENESIS

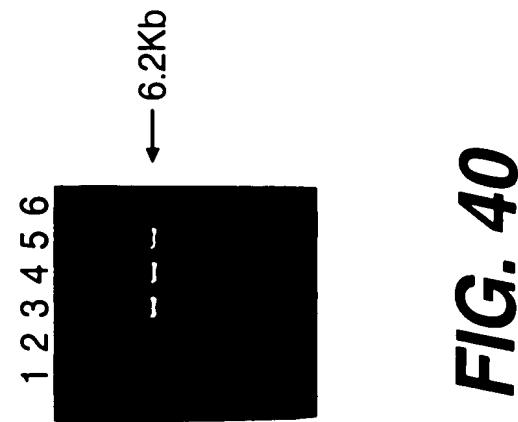
| LINEAR AMPLIFICATION CONDITIONS | | | TRANSFORMATION RESULTS | | |
|------------------------------------|--------|--------------|---------------------------|------|----------|
| POL. | BUFFER | H.S. #75 | AMPL. PROD. | #cfu | %MUTANTS |
| nPfu (#38) | nPfu | 0 | + | 84 | 95 |
| | | 1 μ l | \pm | 47 | 87 |
| | | .1 μ l | + | 154 | 97 |
| | | .01 μ l | ++ | 632 | 95 |
| | | .001 μ l | + | 484 | 94 |
| nPfu (#24A) | nPfu | 0 | + | 94 | 89 |
| | | 1 μ l | + | 34 | 85 |
| | | .1 μ l | + | 173 | 91 |
| | | .01 μ l | ++ | 468 | 96 |
| | | .001 μ l | + | 230 | 90 |

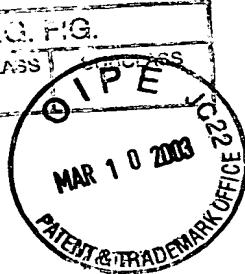
FIG. 39

APPLIED D.C. FIG.
BY CLASS SUBCLASS
SEARCHED 1A



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
PEF PROTEIN COMPLEXES, ISOLATED PEF PROTEIN, AND
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Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS, PEF PROTEIN COMPLEXES, ISOLATED PEF PROTEIN, AND METHODS FOR PURIFYING AND IDENTIFYING SAME
Inventors: Holly H. HOGREFE et al.
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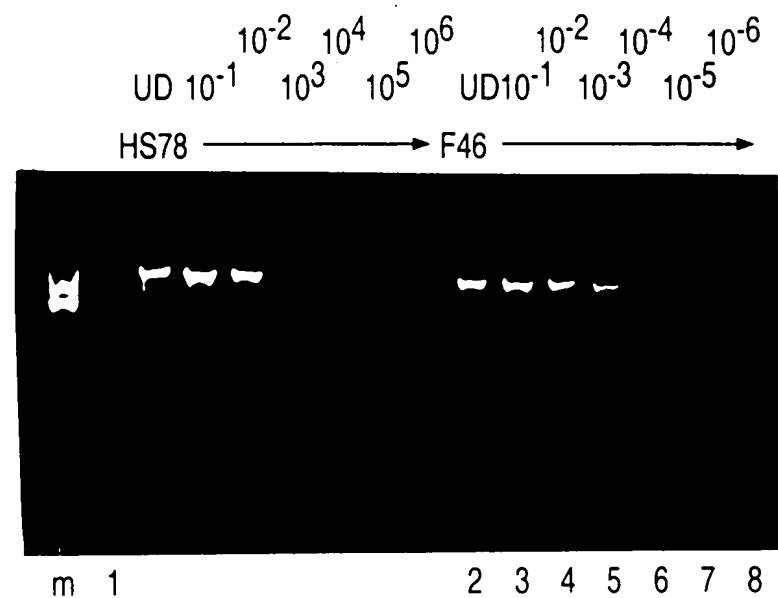
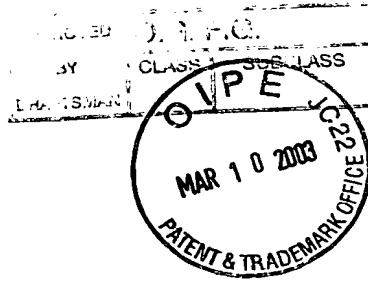


FIG. 41



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS, PEF PROTEIN COMPLEXES, ISOLATED PEF PROTEIN, AND METHODS FOR PURIFYING AND IDENTIFYING SAME
Inventors: Holly H. HOGREFE et al.
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FIG. 42

| | | |
|--|----------|----------|
| APPROVED | SEARCHED | INDEXED |
| BY | CLASS | SUBCLASS |
| SEARCHED, SERIALIZED, INDEXED, AND FILED | | |

Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
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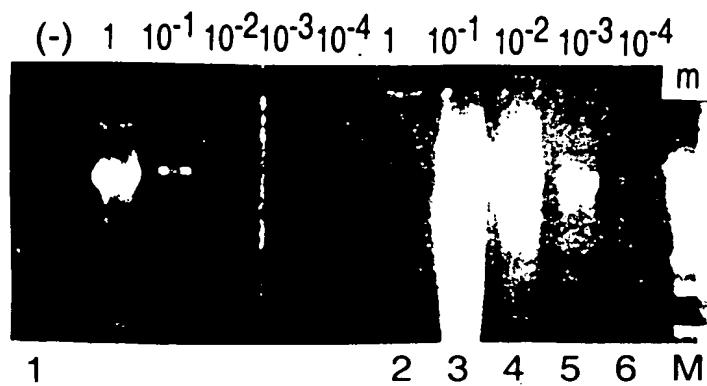
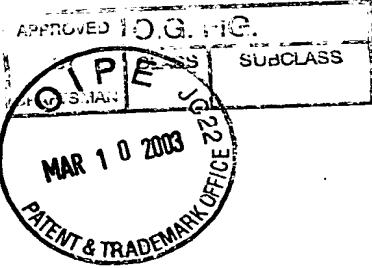


FIG. 43



Title: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS,
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Filed: October 24, 1997
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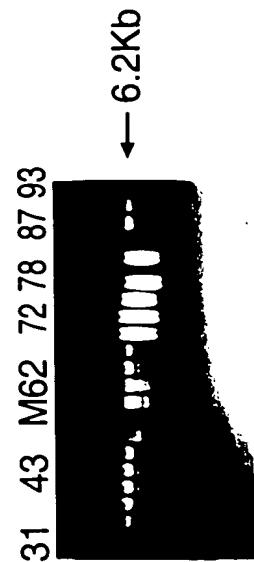


FIG. 44A

FIG. 44B